

PATENT  
ATTORNEY DOCKET NO.: 056921-5137

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of: )  
DAVIS et al. )  
Application No.: 09/869,925 )  
Filed: July 9, 2001 )  
FOR: COLCHINOL DERIVATIVES AS )  
VASCULAR DAMAGING AGENTS )

) Group Art Unit: 1653  
)  
Examiner: Lukton, David

Commissioner for Patents  
U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Date: October 15, 2004

Sir:

**INFORMATION DISCLOSURE STATEMENT**

Attached is a Form PTO-1449 listing the enclosed documents.

Please charge the Rule 17(p) official fee required by Rule 97(c) to our Deposit Account No. 50-0310 under Order No. 056291-5137.

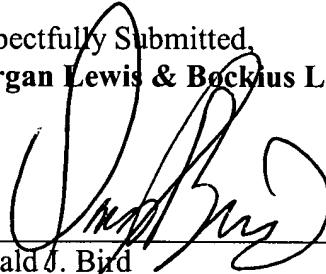
This Information Disclosure Statement is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

Consideration of the foregoing and enclosures plus the return of a copy of the herewith filed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 along with an early action on the merits of this application are earnestly solicited.

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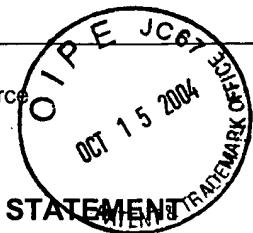
Except for issue fees payable under 37 C.F.R. §1.18, the Director is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** -in accordance with 37 C.F.R. §1.136(a)(3).

Respectfully Submitted,  
**Morgan Lewis & Bockius LLP**

  
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FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
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**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

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Attorney Docket No.	Client Ref.	
056291-5137	Z70457-1P US	
Applicant: Davis et al.		
Appln. No.: 09/869,925		
Filing Date: July 9, 2001		
Examiner: Lukton, David	Group Art Unit: 1653	

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR						
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**FOREIGN PATENT DOCUMENTS**

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
DR	39-19634	09/1964	Japan	Nakamura			X	
ER	39-19635	09/1964	Japan	Nakamura			X	
FR								

**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

GR	Abu Zarga et al., "New Natural Dibenzocycloheptylamine Alkaloids": A Possible Catabolic Route for the Colchicine Alkaloids", J. Nat. Prod., (1991), 54(4), 936-940			
HR	AI-Tel et al., "New Natural Colchicinoids: Indications of Two Possible Catabolic Routes for the Colchicine Alkaloids", J. Nat. Prod., (1990) 53 (3), 623-629			
IR	Banwell et al., "Total Syntheses of the Structures Assigned to Salimine and Jerusalemine, Alkaloids from <i>Colchicum decaisnei</i> Boiss. (Liliaceae)", J. Chem. Soc., Chem. Commun., (1994) (22) 2647-2649			
JR	Banwell, et al., "Synthesis and Tubulin-Binding Properties of Some AC- and ABC-Ring Analogues of Allocolchicine", Aust J Chem., (1992), 45, 1967-1982			
KR	Battersby et al., "Biosynthesis. Part 26 <sup>1</sup> . Synthetic Studies on Structural Modification of Late Biosynthetic Precursors for Colchicine", J. Chem. Soc., Perkin Trans 1, (1983), (12), 3053-3063			
LR	Boger et al., "Thermal Reactions of Cyclopropenone Ketals. Application of . . . Total Synthesis of Colchicine", J. Am. Chem. Soc., (1986) (108 (21), 6713-6719			
MR	Boyé et al. "185. Deaminocolcheryl Methyl Ether: Synthesis from . . . Effects of Deaminocolchetyl Methyl Ether and Dehydro Analogs", Helv. Chem. Acta, (1989), 72 (8), 1690-1696			
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OR	Brossi et al., "aS, 7S-absolute configuration of natural (-)-colchicine and allocongeners", FEBS Lett., (1990), 262 (1), 5-7			
PR	Orsini et al (1997) Carbohydrate Research 301, 95-109			
QR	Brown et al (1995) J. Chem. Soc. Perkin. Trans. 1 577-581			

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Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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GR	Deinum et al., "Synthesis and Binding to Tubulin of an Allocolchicine Spin Probe." Acta Chem. Scand, Ser B (1981) B35 (10), 677-681			
HR	Dilger et al., "Arbeitsvorschriften und Meßwerte Procedures and Data Formaldehyd-O-oxid und Colchicine: ein eleganter Zugang zu Allocolcicinen", J. Prakt Chem./Chem-Ztg, (1998), 340 (5), 468-471 (in German)	x		x
IR	Dokl Akad Nauk USSR, (1991) (4) 33-35		x	x
JR	Dumortier et al., "Alternations of Rings B and C of Colchicine Are Cumulative in Overall Binding to Tubulin but Modify Each Kinetic Step", Biochemistry, (1996), 35 (49), 15900-15906			
KR	Fernholz, "Über die Umlagerung des Colchicins mit Natriumalkoholat und die Struktur des Ringes C <sup>1</sup> ", Justus Liebigs Ann. Chem., CODEN: JLACBF, 568, (1950), 63-82			
LR	Fitzgerald, "Molecular Features of Colchicine Associated with Antimitotic Activity and Inhibition of Tubulin Polymerization", Biochemistry Pharmacology, (1976), 25, 1383-1387			
MR	Ghera et al., "Total Synthesis of Lignan ( $\pm$ )-Schizandrin", J. Chem. Soc., Chem. Commun., (1978) (11), 480-481			
NR	Hahn et al., "Synthesis and Evaluation of 2-Diazo-3,3,3-Trifluoropropanoyl . . . Photochemistry, and Tubulin Binding", Photochem. Photobiol., (1992) 55 (1), 17-27			
OR	Han et al., "Distances between the Paclitaxel, Colchicine, and Exchangeable GTP Binding Sites on Tubulin", Biochemistry, (1998), 37 (19), 6636-6644			

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GR	Hastie, "Spectroscopic analyses of colchicinoid-tubulin complexes", Cellular Pharmacology, (1993), 1 (Suppl. 1), S17-S21			
HR	Hastie, "Spectroscopic and Kinetic Features of Allocolchicine Binding to Tubulin", Biochemistry, (1989), 28 (19), 7753-7760			
IR	Hrbek et al., "Circular Dichroism of Alkaloids of Colchicine Type And Their Derivatives", Collect. Czech. Chem. Commun., (1982), 47 (8), 2258-2279			
JR	Iorio, "Contraction of the Tropolonic Ring of Colchicine by Hydrogen Peroxide Oxidation", Heterocycles, (1984), 22 (10), 2207-2211			
KR	Izv Akad Nauk Turkm SSR, Ser Fiz-Tekh, Khim Geol Nauk, (1976), (1), 70-73		x	x
LR	Kiselev et al., "Benzoid Rearrangement of Colchicine by the Action of Ethylene Glycol", Zh. Org. Khim., (1977), 13 (11), 2337-2342 (in Russian) (English translation attached)			
MR	Kiselev et al., "Derivatives of Aminocolchicide - VI. DICOLCHICIDYL-L-LYSINE" Obshch. Khim., (1970), 40 (4), 914-915 (in Russian, English translation attached)			
NR	Kiselev, "Derivatives of Aminocolchicide. VII", Zh. Zh. Obshch. Khim., (1971), 41 (2) 464-466 (in Russian, English translation attached)			
OR	Kita et al., "Non-phenolic oxidative coupling of phenol ether derivatives using phenyliodine (III) bis(trifluoroacetate)", Chem. Commun. (Cambridge), (1996) (12), 1481-1482			

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GR	Leiter et al., "Damage Induced in Sarcoma 37 with Chemical Agents. III. Colchicine Derivatives Related to Trimethylcolchicinic Acid and to Colchinol", J. Natl. Cancer Inst., (1952), 13, 379-392			
HR	Medrano, "Roles of Colchicine Rings B and C in the Binding Process to Tubulin", Biochemistry, (1989), 28 (13), 5589-5599			
IR	Menéndez et al., "A Thermodynamic Study of the Interaction of Tubulin with Colchicine Site Ligands", J. Biol. Chem., (1989), 264, (28), 16367-16371			
JR	Olszewski et al., "Potential Photoaffinity Labels for Tubulin. Synthesis and . . . Colchicine, Combretastatin, and 3,4,5-Trimethoxybiphenyl", J. Org. Chem., (1994), 59 (15) 4285-4296			
KR	Powell et al., "Role of Ring C Substituents Related to Allocolchicine on Antitubulin Action", Med. Chem. Res., (1996), 164-173			
LR	Zh Obshch Khim., (1994) 64(5) 856-864 (in Russian)			
MR	Timbekov et al., "Mass Spectrometric Study of Alkaloids of the Homoaporphine, Homomorpine and Allocolchicine Series", "Tezisy Dokl. = Sov.-Indiiskii Simp. Khim. Prir. Soedin., 5th (1978), p. 85 (Chemical Abstracts attached)			
NR	Mackay et al., "Structures of Colchicine Analogues. I. Allocolchicine", Acta Cryst., (1989), C45, 795-799			
OR				
PR				

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